

CALIFORNIA HIGH-SPEED TRAIN

Project Environmental Impact Report/Environmental Impact Statement

FINAL

Merced to Fresno Section Project EIR/EIS **Volume III:** Section M – Station Plans

April 2012



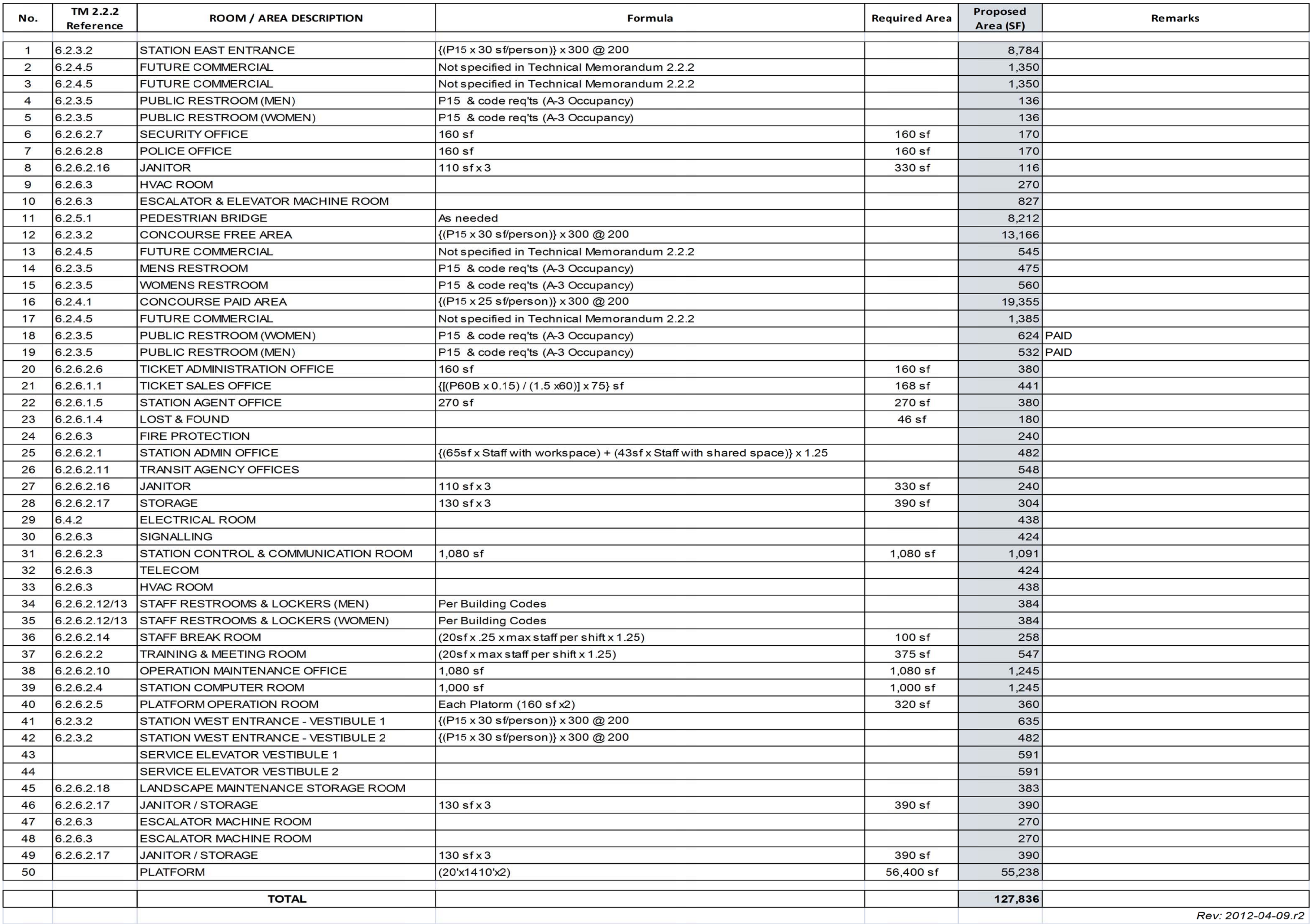
CALIFORNIA
High-Speed Rail Authority



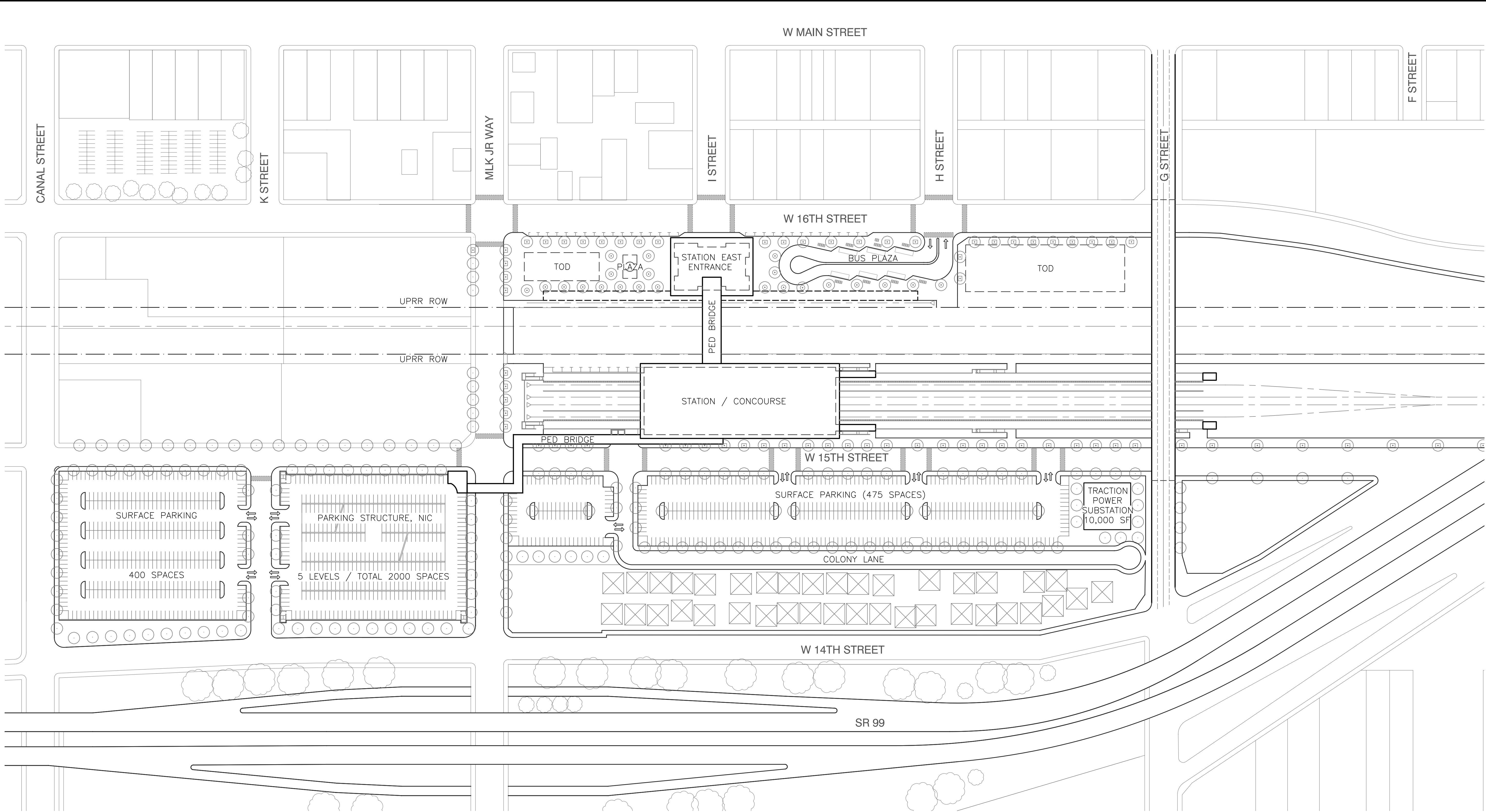
U.S. Department of Transportation
Federal Railroad Administration



CALIFORNIA HIGH SPEED TRAIN STATION
MERCED STATION - SITE C



						DESIGNED BY S. MATHEWS	15% SUBMITTAL FOR INTERNAL USE ONLY	 <div>2020 L STREET SUITE 300 SACRAMENTO, CA 95811 UNITED STATES T 916.414.5800 F 916.414.1557</div>	 <div>CALIFORNIA <i>CALIFORNIA HIGH-SPEED RAIL AUTHORITY</i></div>	CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO MERCED STATION / SITE C SPACE PROGRAM AND VICINITY MAP	CONTRACT NO. -
					DRAWN BY R. BELTRAN	DRAWING NO. A0301					
					CHECKED BY S. MATHEWS	SCALE NTS					
					IN CHARGE A. BOONE	SHEET NO. 2 of 11					
					DATE 04/09/2012						
REV	DATE	BY	CHK	APP	DESCRIPTION						

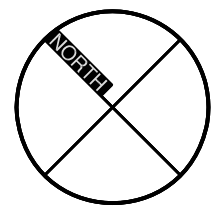


SITE PLAN

1" = 100'-0"

1
A1301

100 0 100 200
HORIZONTAL SCALE: 1"=100'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. MATHEWS
DRAWN BY R. BELTRAN
CHECKED BY S. MATHEWS
IN CHARGE A. BOONE
DATE 04/09/2012

15% SUBMITTAL
FOR INTERNAL
USE ONLY

NOT FOR
CONSTRUCTION

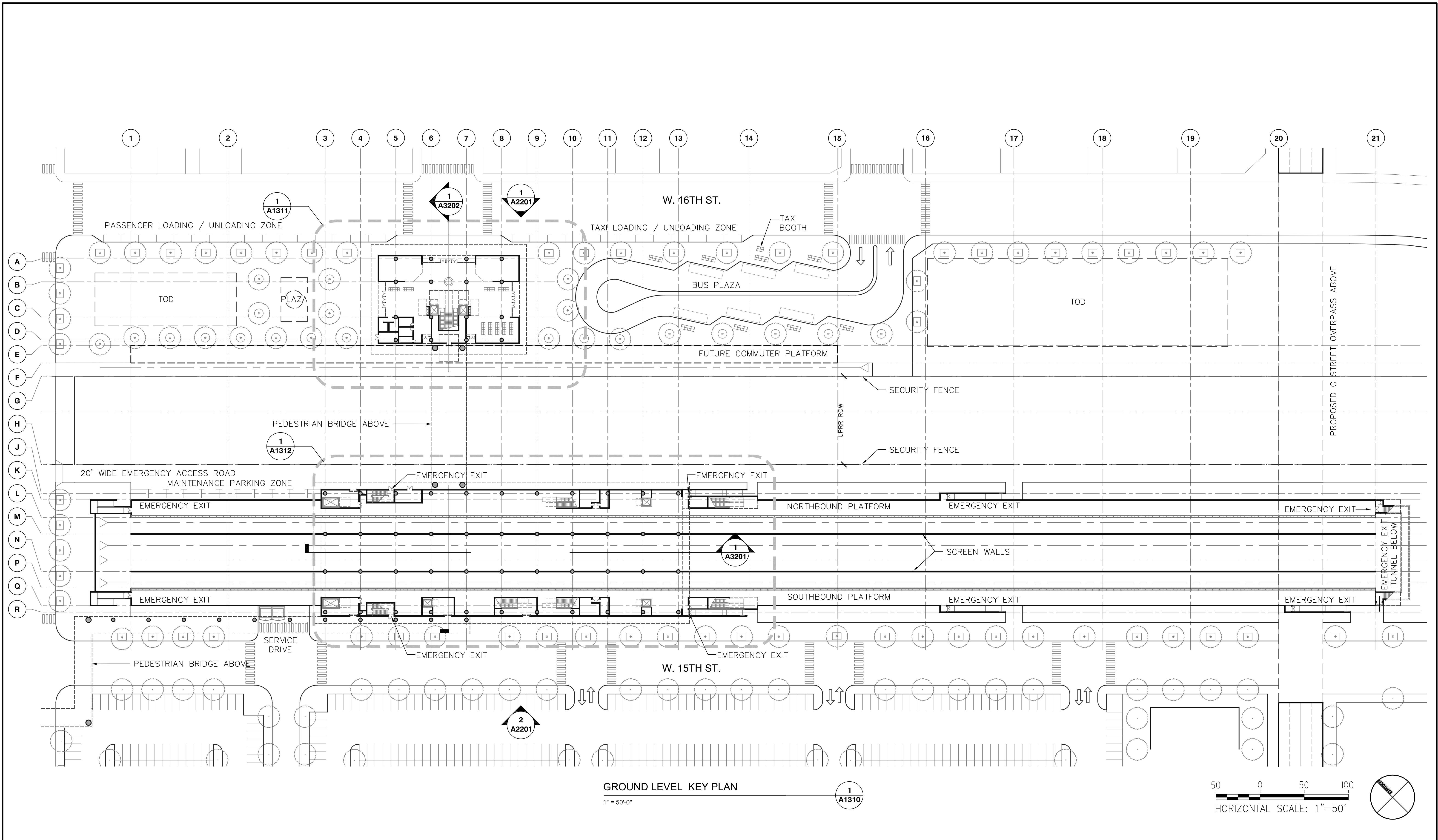
2020 L STREET
SUITE 300
SACRAMENTO, CA 95811
UNITED STATES
T 916.414.5800
F 916.414.1557

CALIFORNIA
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

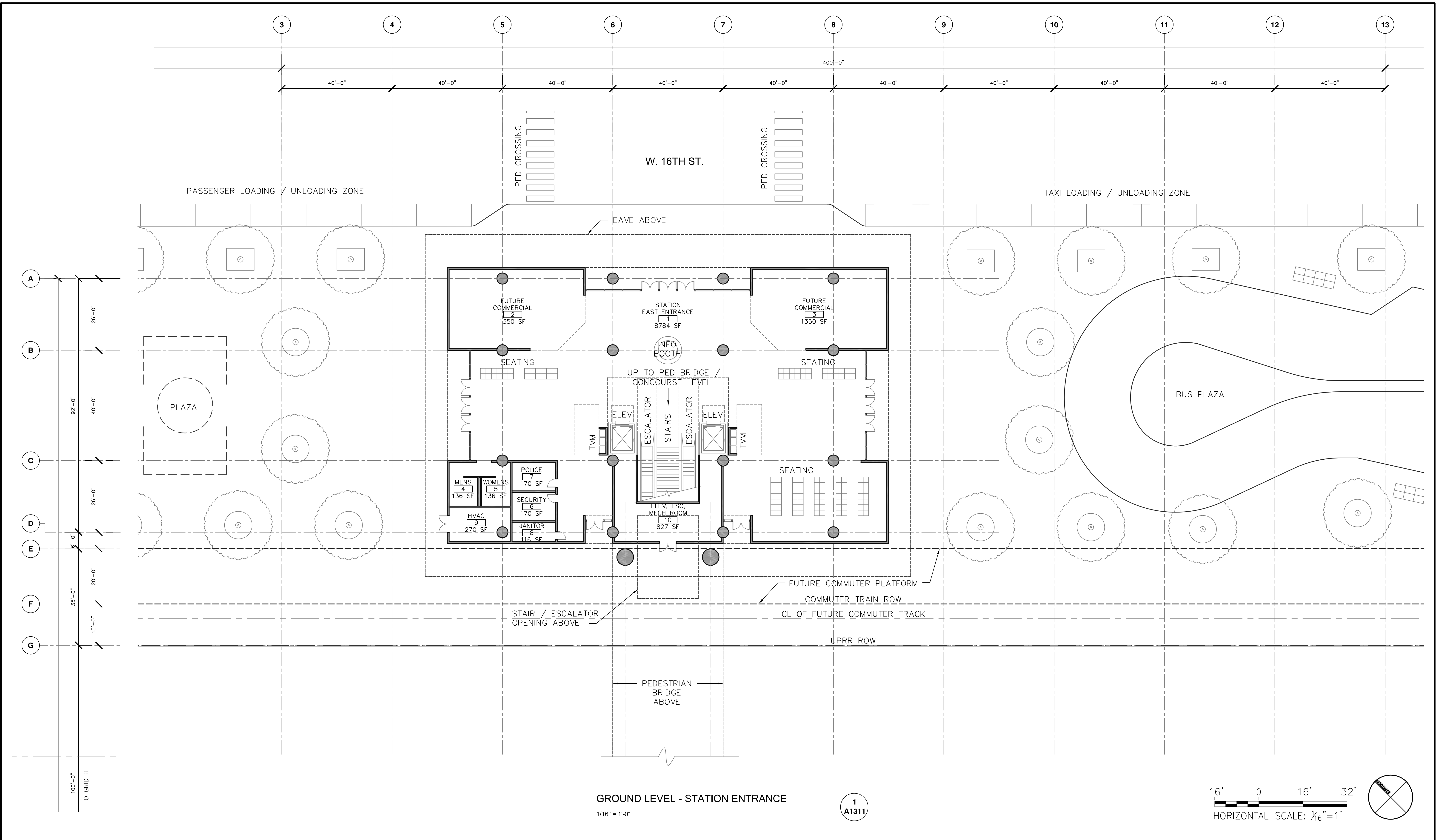
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

MERCED STATION/SITE C
SITE PLAN

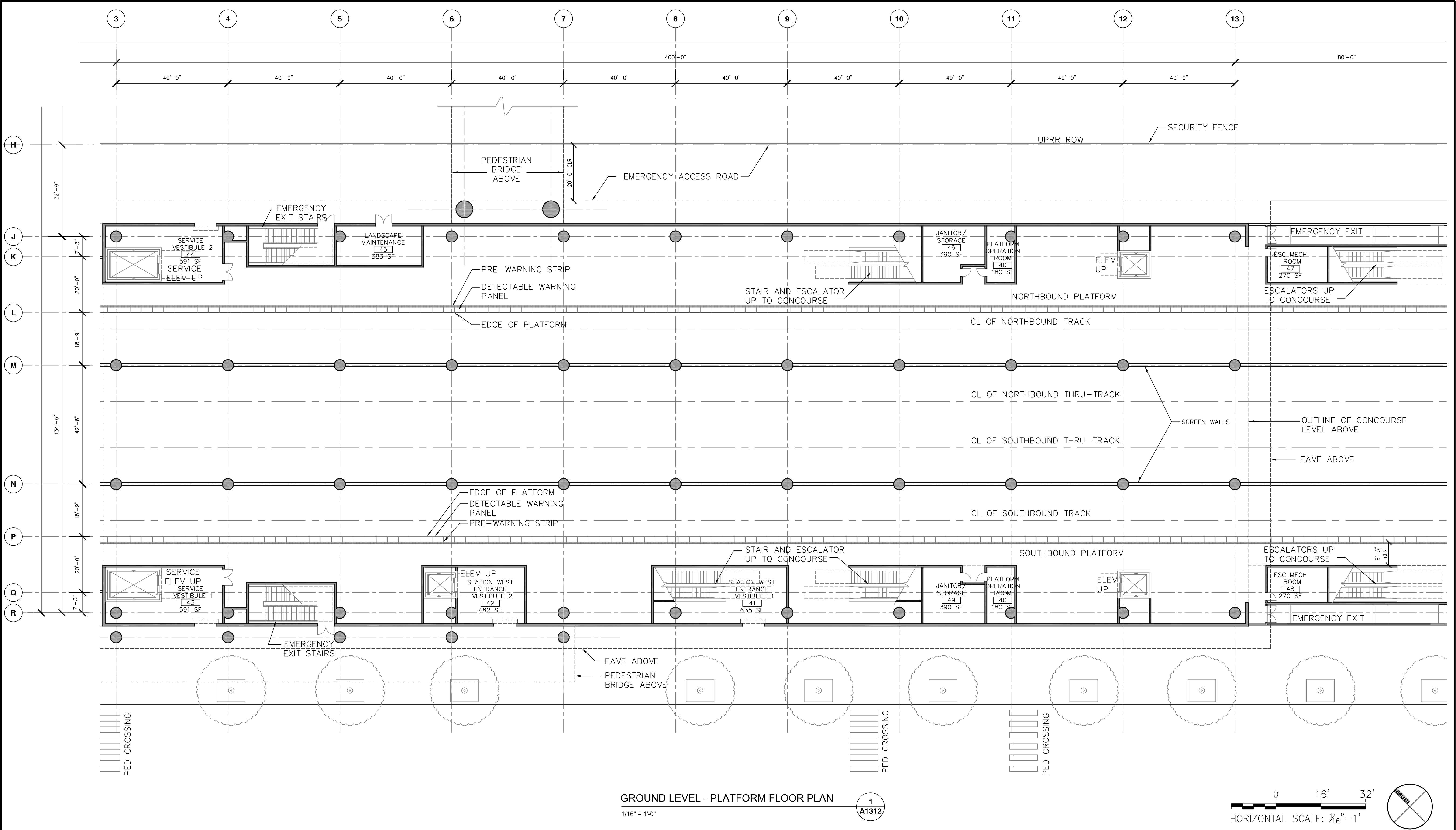
CONTRACT NO. -
DRAWING NO. A1301
SCALE 1"=100'
SHEET NO. 3 of 11



					DESIGNED BY S. MATHEWS	15% SUBMITTAL FOR INTERNAL USE ONLY NOT FOR CONSTRUCTION	<div><div><div></div></div><div><div>2020 L STREET SUITE 300 SACRAMENTO, CA 95811 UNITED STATES T 916.414.5800 F 916.414.1557</div></div><div><div><div></div></div><div><div>CALIFORNIA CALIFORNIA HIGH-SPEED RAIL AUTHORITY</div></div></div></div>	CONTRACT NO. -	
					DRAWN BY R. BELTRAN			DRAWING NO. A1310	
					CHECKED BY S. MATHEWS			SCALE 1"=50'	
					IN CHARGE A. BOONE			SHEET NO. 4 OF 11	
					DATE 04/09/2012				
REV	DATE	BY	CHK	APP	DESCRIPTION				



					DESIGNED BY S. MATHEWS	15% SUBMITTAL FOR INTERNAL USE ONLY NOT FOR CONSTRUCTION	<div><div><div></div></div><div><div></div></div></div> <div>2020 L STREET SUITE 300 SACRAMENTO, CA 95811 UNITED STATES T 916.414.5800 F 916.414.1557</div> <div><div><div></div></div><div><div></div></div></div> <div>CALIFORNIA CALIFORNIA HIGH-SPEED RAIL AUTHORITY</div>	CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO		CONTRACT NO. -	
					DRAWN BY R. BELTRAN			MERCED STATION/SITE C STATION ENTRY PLAN		DRAWING NO. A1311	
					CHECKED BY S. MATHEWS					SCALE 1/16"=1'-0"	
					IN CHARGE A. BOONE					SHEET NO. 5 of 11	
					DATE 04/09/2012						
REV	DATE	BY	CHK	APP	DESCRIPTION						



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. MATHEWS
DRAWN BY R. BELTRAN
CHECKED BY S. MATHEWS
IN CHARGE A. BOONE
DATE 04/09/2012

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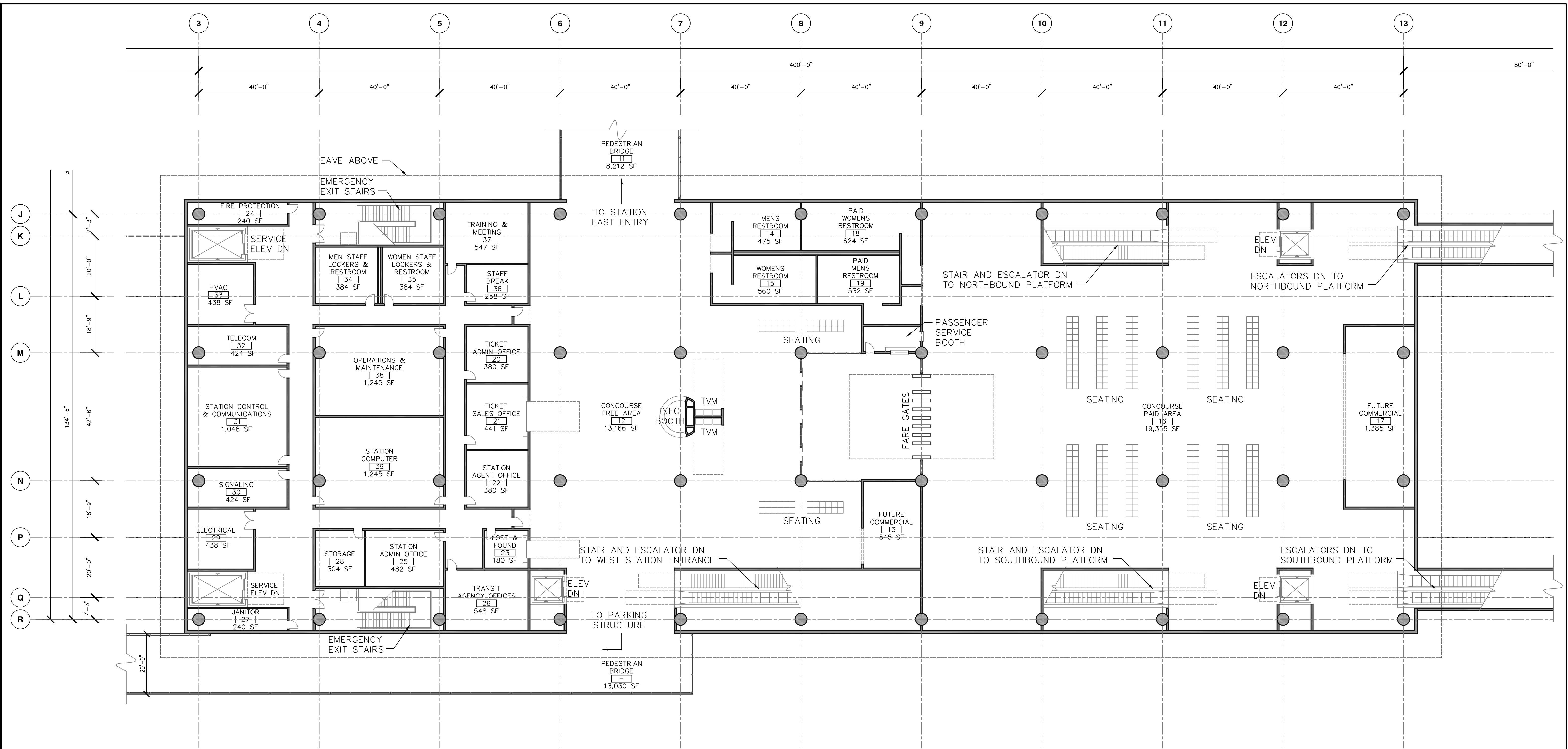
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UNITED STATES
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CALIFORNIA
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

MERCED STATION/SITE C
PLATFORM LEVEL PLAN

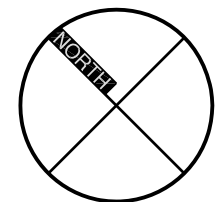
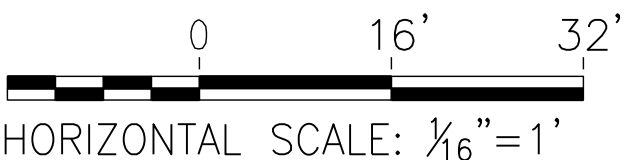
CONTRACT NO. -
DRAWING NO. A1312
SCALE 1/16"=1'-0"
SHEET NO. 6 of 11



CONCOURSE LEVEL FLOOR PLAN

1/16" = 1'-0"

1
A1321



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. MATHEWS
DRAWN BY R. BELTRAN
CHECKED BY S. MATHEWS
IN CHARGE A. BOONE
DATE 04/09/2012

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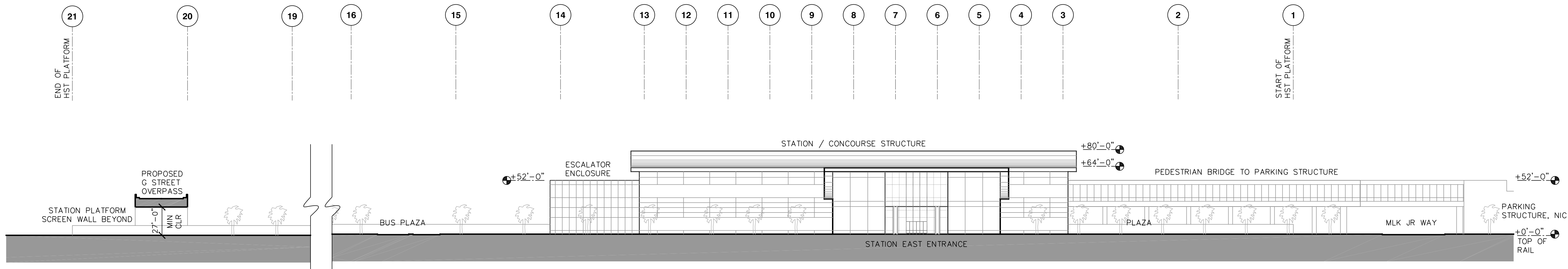
2020 L STREET
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UNITED STATES
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F 916.414.1557

CALIFORNIA
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

MERCED STATION/SITE C
CONCOURSE LEVEL PLAN

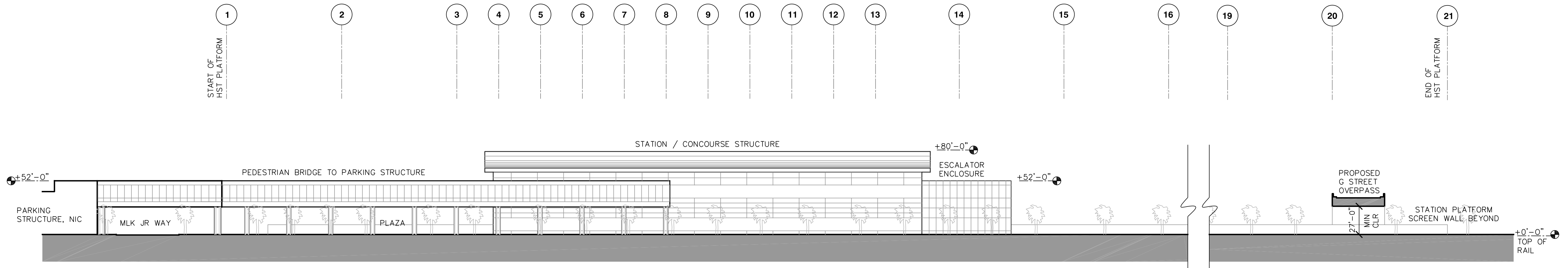
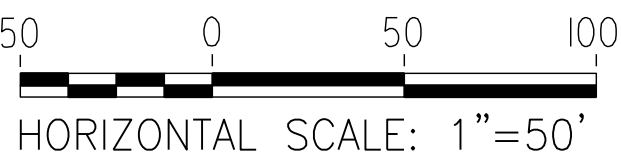
CONTRACT NO. -
DRAWING NO. A1321
SCALE 1/8"=1'-0"
SHEET NO. 8 of 11



BUILDING EAST ELEVATION

1" = 50'-0"

1
A2201



BUILDING WEST ELEVATION

1" = 50'-0"

2
A2201



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. MATHEWS
DRAWN BY R. BELTRAN
CHECKED BY S. MATHEWS
IN CHARGE A. BOONE
DATE 04/09/2012

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AECOM

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UNITED STATES
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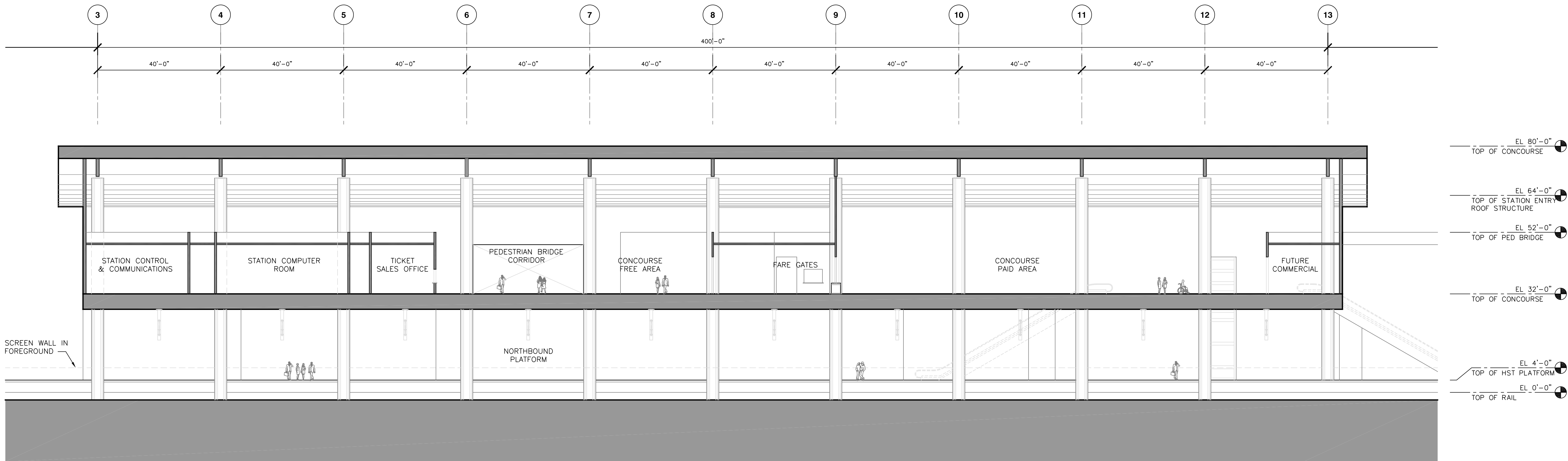


CALIFORNIA
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

MERCED STATION/SITE C
BUILDING ELEVATIONS

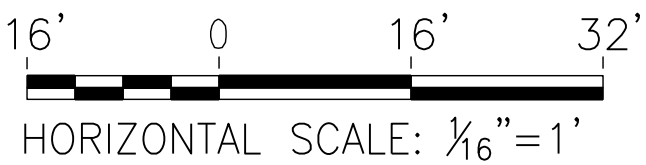
CONTRACT NO. -
DRAWING NO. A2201
SCALE 1"=50'
SHEET NO. 9 of 11



BUILDING SECTION

1/16" = 1'-0"

1
A3201



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. MATHEWS
DRAWN BY R. BELTRAN
CHECKED BY S. MATHEWS
IN CHARGE A. BOONE
DATE 04/09/2012

15% SUBMITTAL
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CONSTRUCTION

AECOM

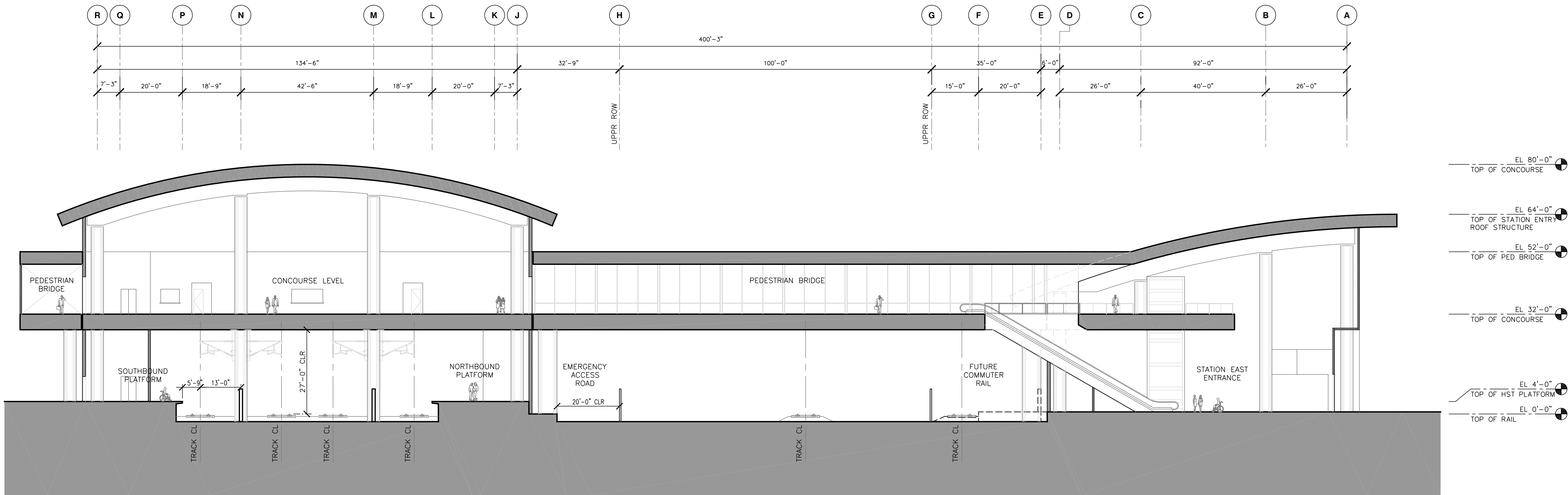
2020 L STREET
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UNITED STATES
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CALIFORNIA
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
MERCED STATION/SITE C
BUILDING SECTION

CONTRACT NO. -
DRAWING NO. A3201
SCALE 1/16"=1'-0"
SHEET NO. 10 of 11



BUILDING SECTION

1/16" = 1'-0"

1
A3202

16' 0 16' 32'
HORIZONTAL SCALE: 1/16" = 1'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY S. MATHEWS
DRAWN BY R. BELTRAN
CHECKED BY S. MATHEWS
IN CHARGE A. BOONE
DATE 04/09/2012

15% SUBMITTAL
FOR INTERNAL
USE ONLY

NOT FOR
CONSTRUCTION

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CALIFORNIA
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
MERCED STATION/SITE C
BUILDING SECTION

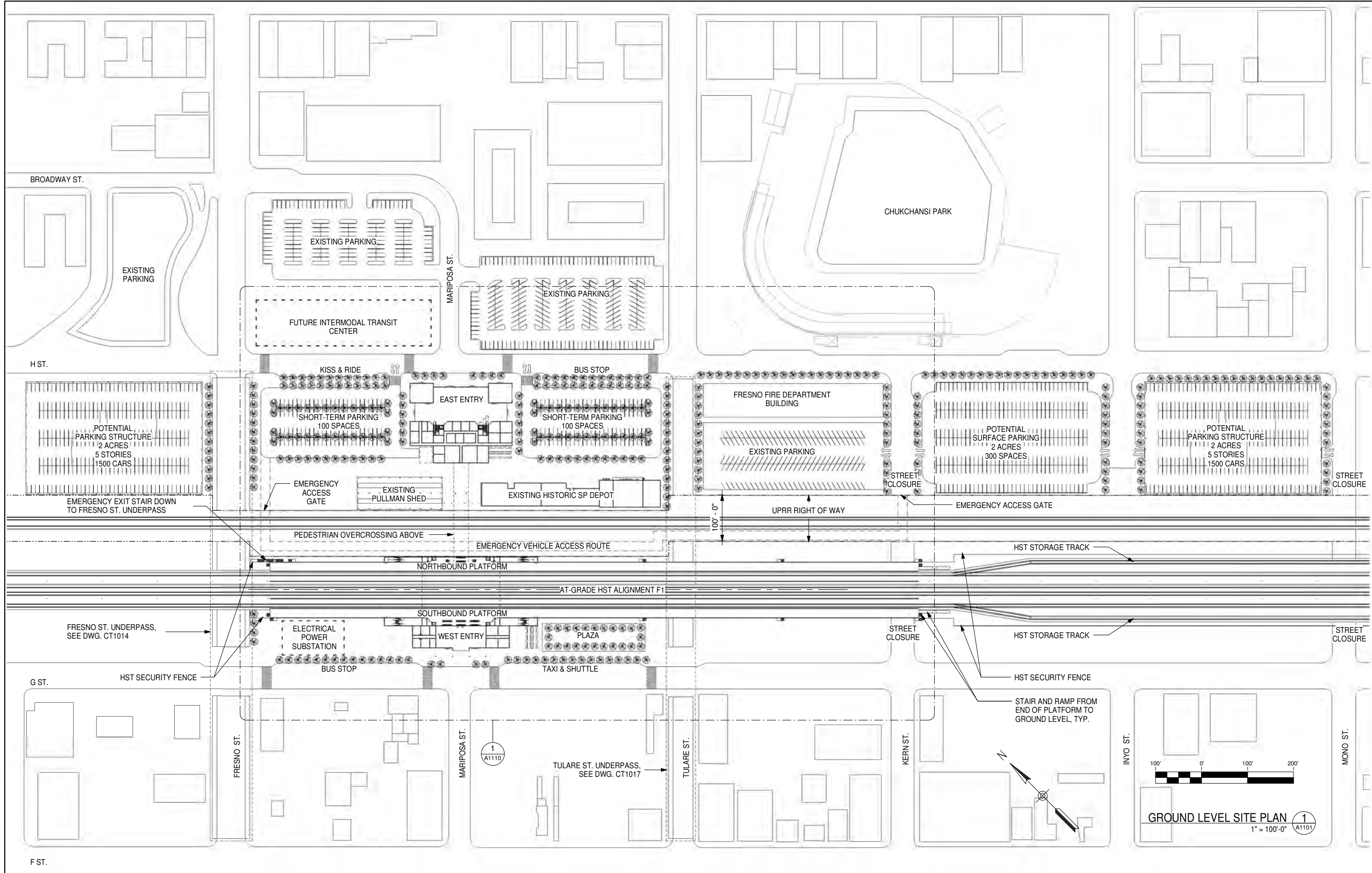
CONTRACT NO. -
DRAWING NO. A3202
SCALE 1/16"=1'-0"
SHEET NO. 11 of 11

CALIFORNIA HIGH SPEED TRAIN STATION

FRESNO STATION

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GENERAL NOTES

STATION SITE = 13 ACRES
(INCLUDES STATION BUILDING,
BUS TRANSIT CENTER, SHORT-
TERM PARKING AND KISS & RIDE)

POTENTIAL PARKING = 7.5 ACRES
(3 PARKING STRUCTURES
+ 1 SURFACE PARKING LOT)

TOTAL = 20.5 ACRES

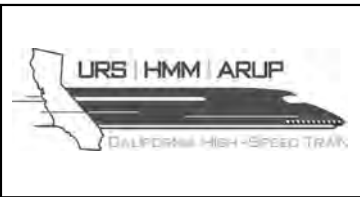
KEY NOTES

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. NAOR
DRAWN BY D. BACKMAN
CHECKED BY F. KING
IN CHARGE E. NAOR
DATE 02/15/12

RECORD SET 15%
DESIGN SUBMISSION

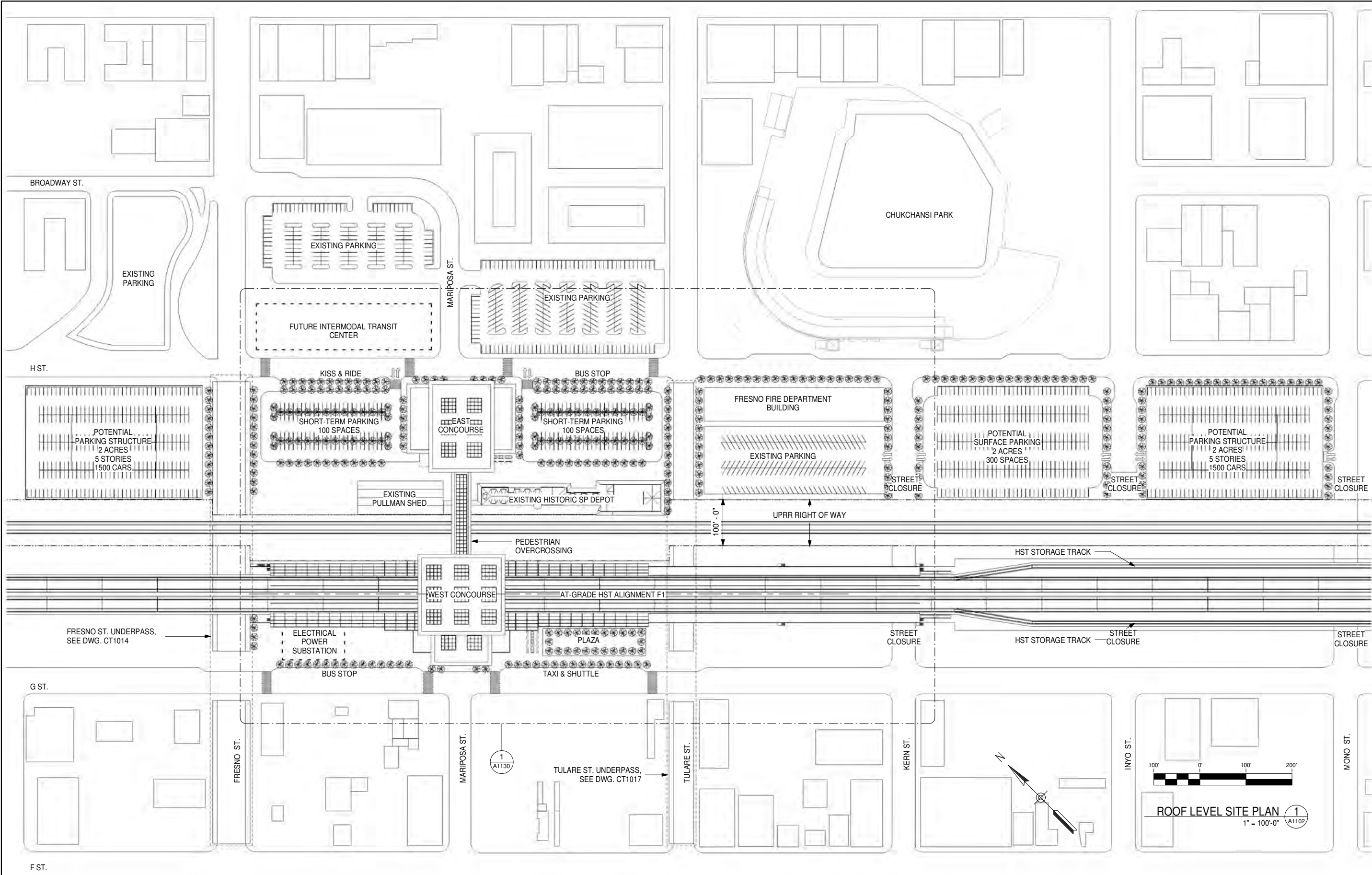
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	
FRESNO SUBSECTION ALIGNMENT F1	
FRESNO STATION - MARIPOSA ALTERNATIVE GROUND LEVEL SITE PLAN	
CONTRACT NO. HSR 06-003	
DRAWING NO. A1101	
SCALE 1" = 100'-0"	
SHEET NO. 1 OF 15	

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GENERAL NOTES

KEY NOTES

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. NAOR
DRAWN BY D. BACKMAN
CHECKED BY F. KING
IN CHARGE E. NAOR
DATE 02/15/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
FRESNO STATION - MARIPOSA ALTERNATIVE
ROOF LEVEL SITE PLAN

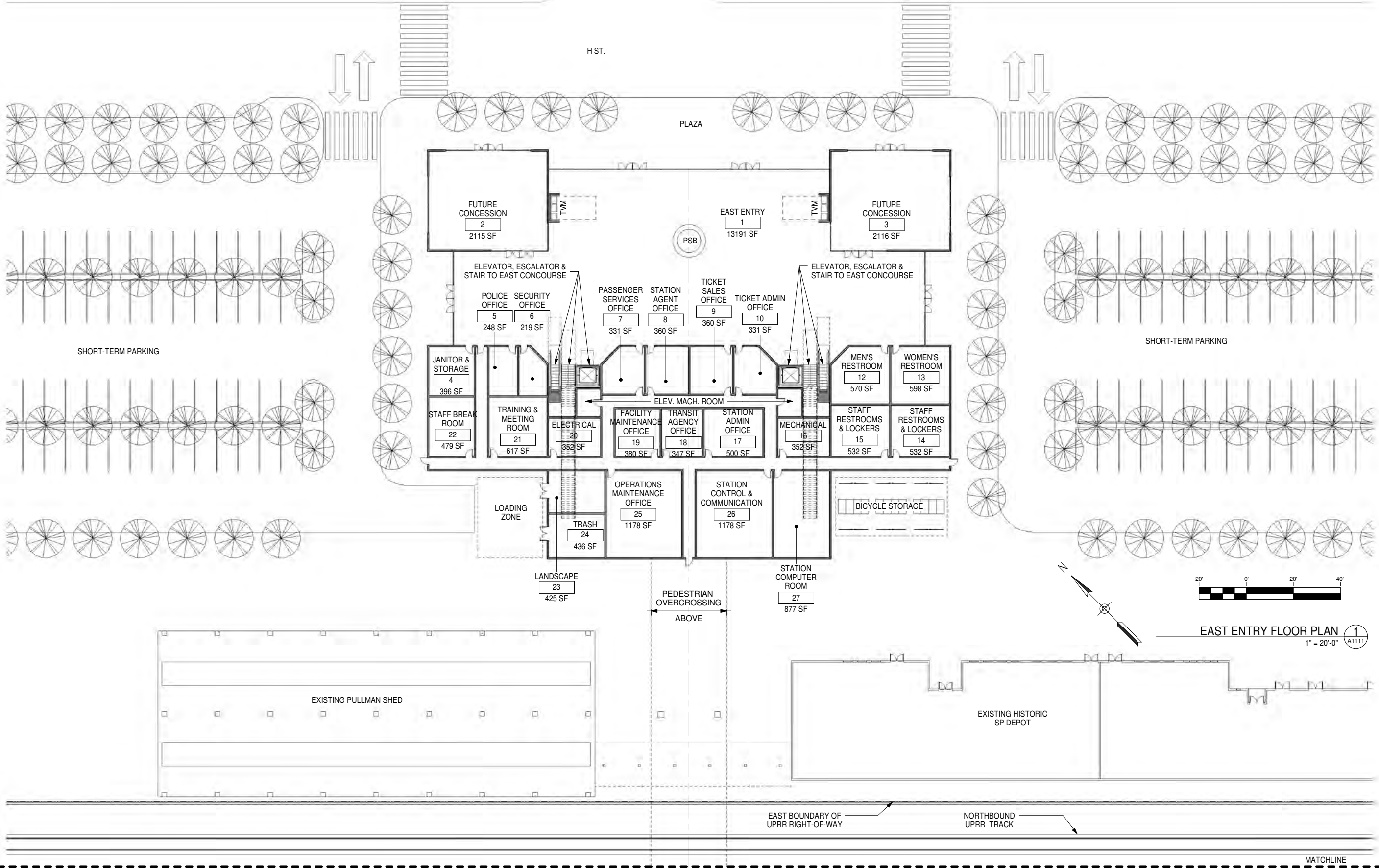
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DRAWING NO.	A1102
SCALE	1" = 100'-0"
SHEET NO.	2 OF 15



CONTRACT NO.	HSR 06-003
DRAWING NO.	A1110
SCALE	1" = 50'-0"
SHEET NO.	3 OF 15

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. NAOR
DRAWN BY D. BACKMAN
CHECKED BY F. KING
IN CHARGE E. NAOR
DATE 02/15/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

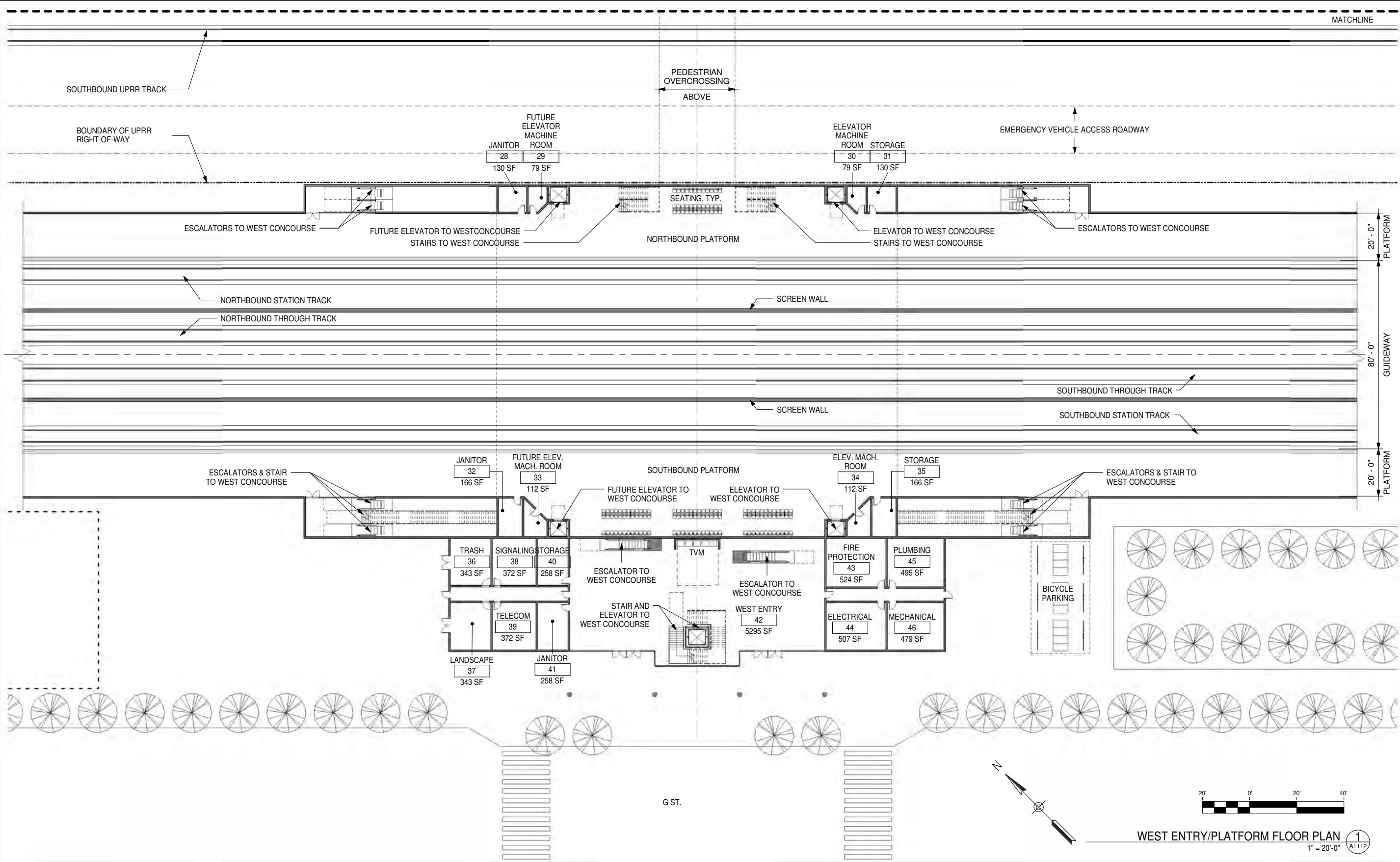


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
FRESNO STATION - MARIPOSA ALTERNATIVE
EAST ENTRY FLOOR PLAN

CONTRACT NO.	HSR 06-003
DRAWING NO.	A1111
SCALE	1" = 20'-0"
SHEET NO.	4 OF 15

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GENERAL NOTES

KEY NOTES

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. NAOR
DRAWN BY D. BACKMAN
CHECKED BY F. KING
IN CHARGE E. NAOR
DATE 02/15/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

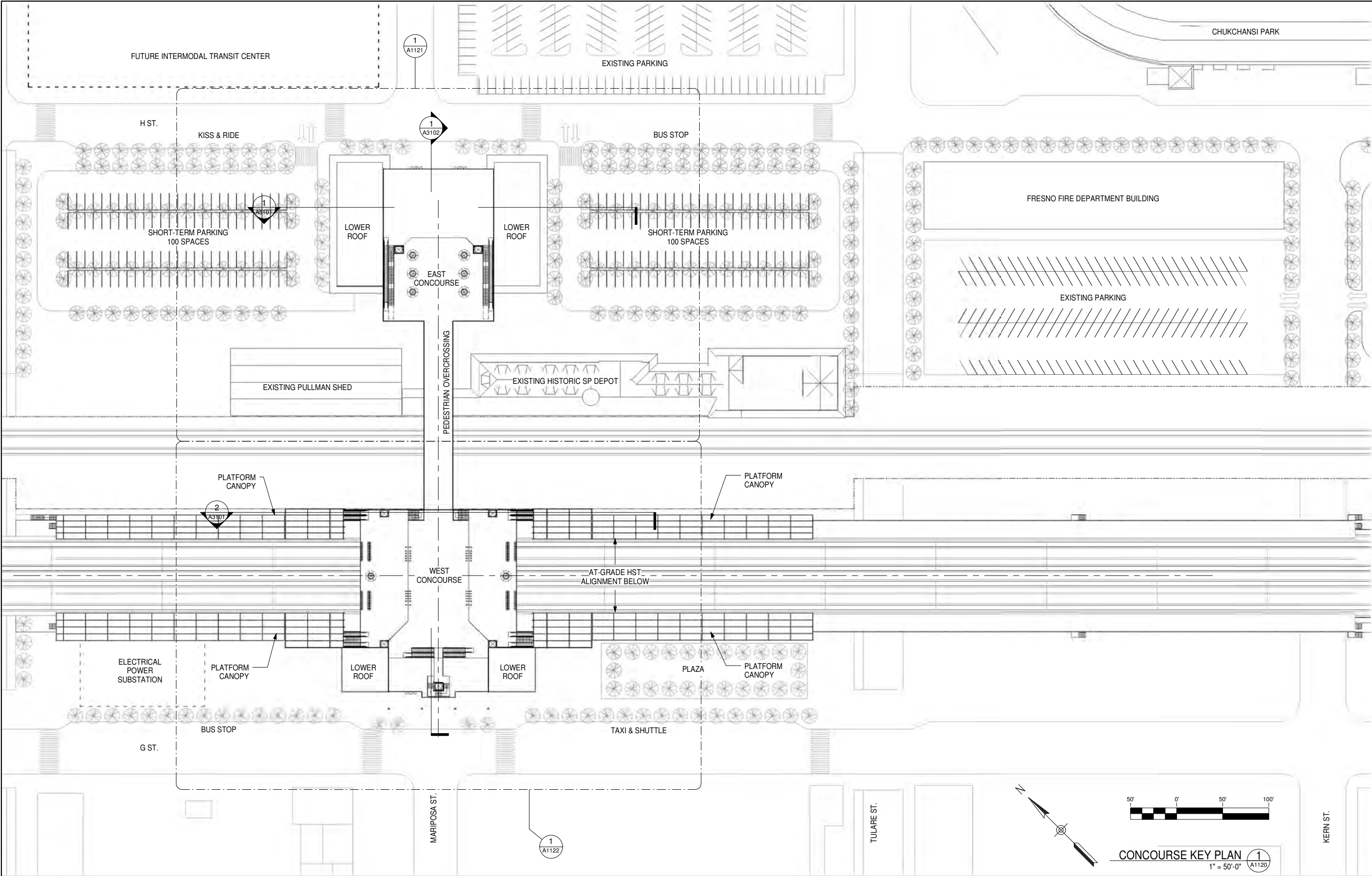


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
FRESNO STATION - MARIPOSA ALTERNATIVE
WEST ENTRY/PLATFORM FLOOR PAN

CONTRACT NO. HSR 06-003
DRAWING NO. A1112
SCALE 1" = 20'-0"
SHEET NO. 5 OF 15

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GENERAL NOTES

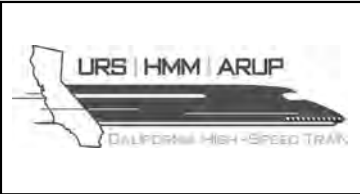
KEY NOTES

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. NAOR
DRAWN BY D. BACKMAN
CHECKED BY F. KING
IN CHARGE E. NAOR
DATE 02/15/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

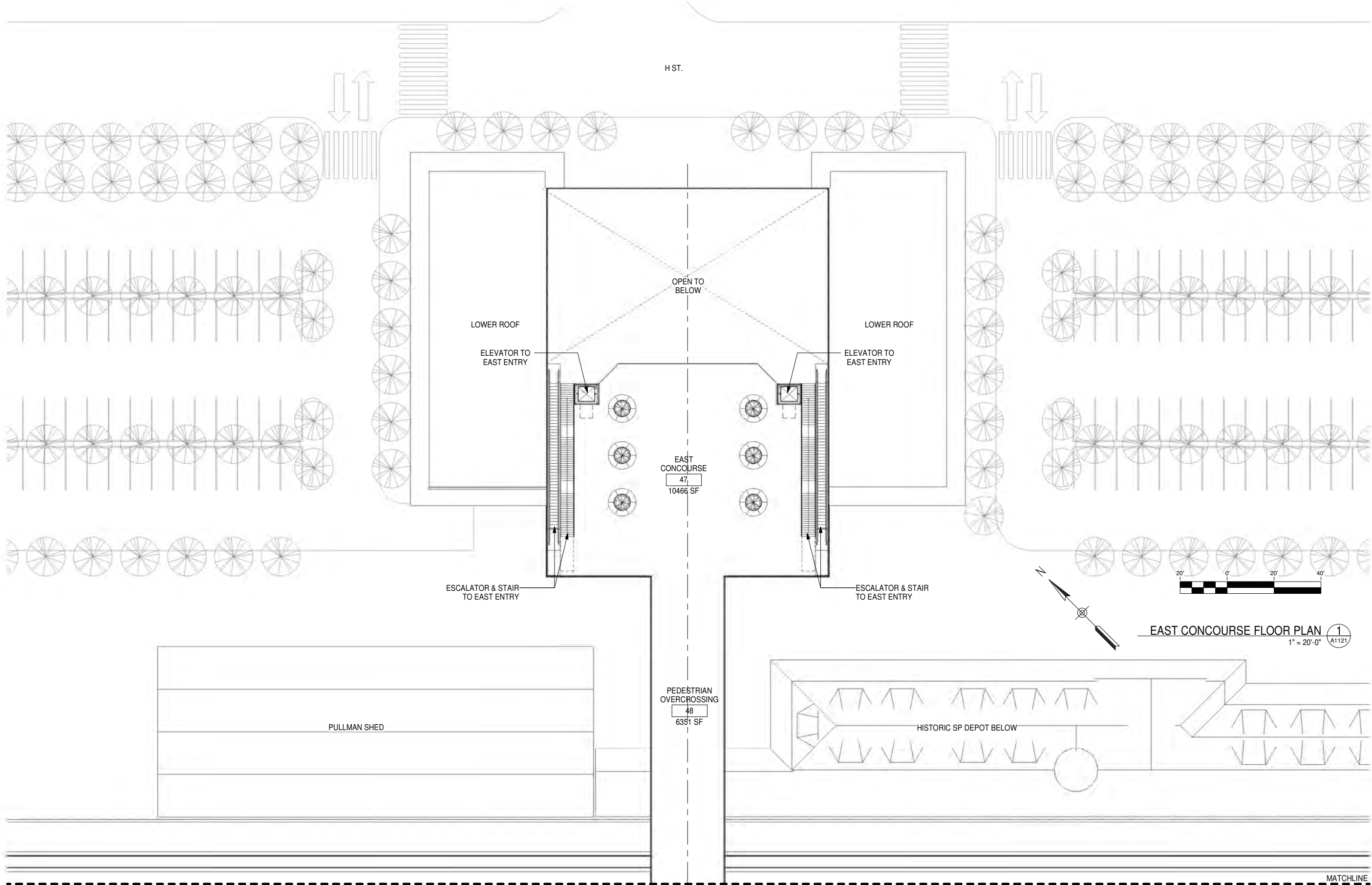


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
FRESNO STATION - MARIPOSA ALTERNATIVE
CONCURSE KEY PLAN

CONTRACT NO.	HSR 06-003
DRAWING NO.	A1120
SCALE	1" = 50'-0"
SHEET NO.	6 OF 15

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GENERAL NOTES

KEY NOTES

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. NAOR
DRAWN BY D. BACKMAN
CHECKED BY F. KING
IN CHARGE E. NAOR
DATE 02/15/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

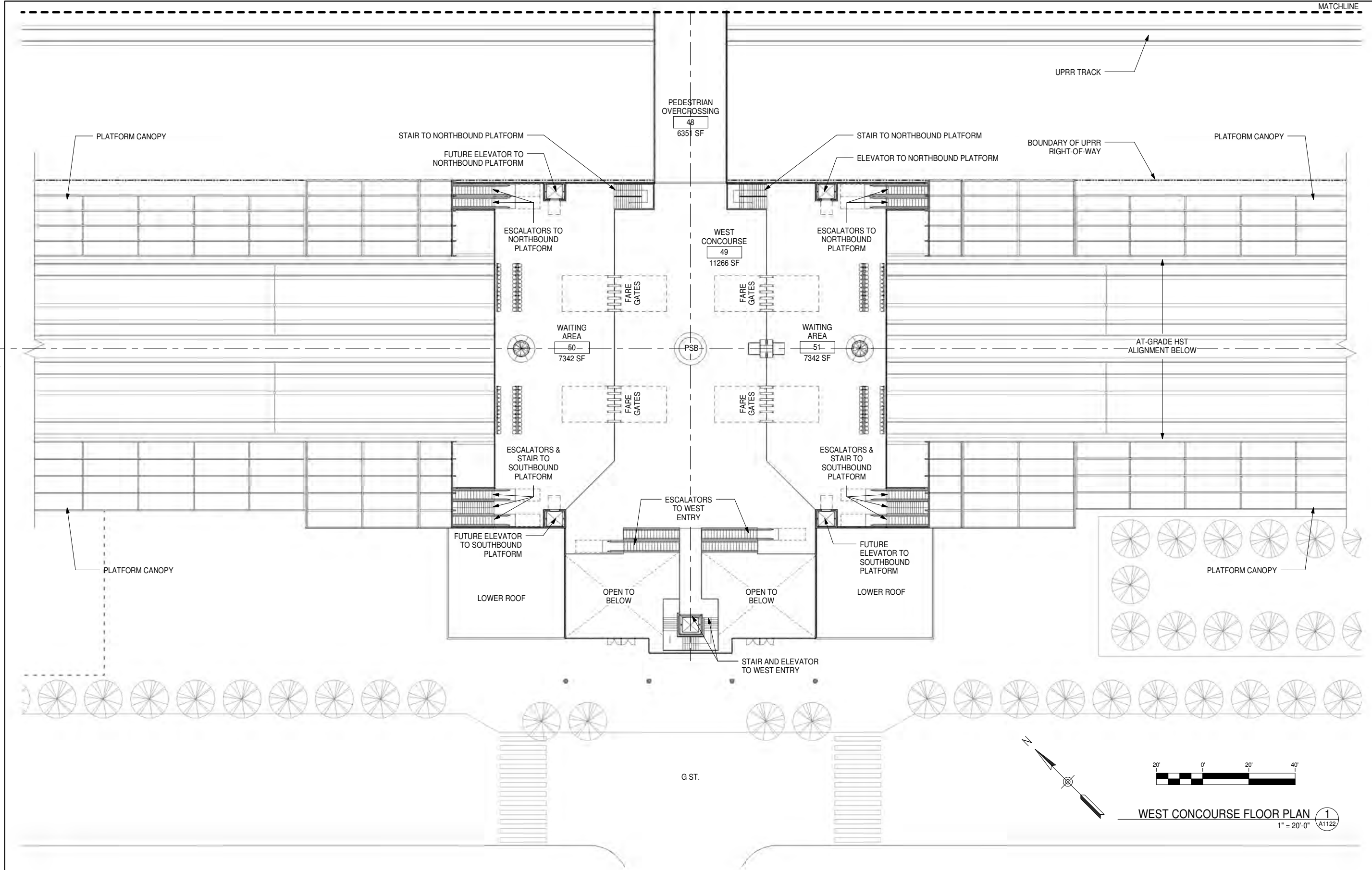


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
FRESNO STATION - MARIPOSA ALTERNATIVE
EAST CONCOURSE FLOOR PLAN

CONTRACT NO.	HSR 06-003
DRAWING NO.	A1121
SCALE	1" = 20'-0"
SHEET NO.	7 OF 15

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GENERAL NOTES

KEY NOTES

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. NAOR
DRAWN BY D. BACKMAN
CHECKED BY F. KING
IN CHARGE E. NAOR
DATE 02/15/12

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

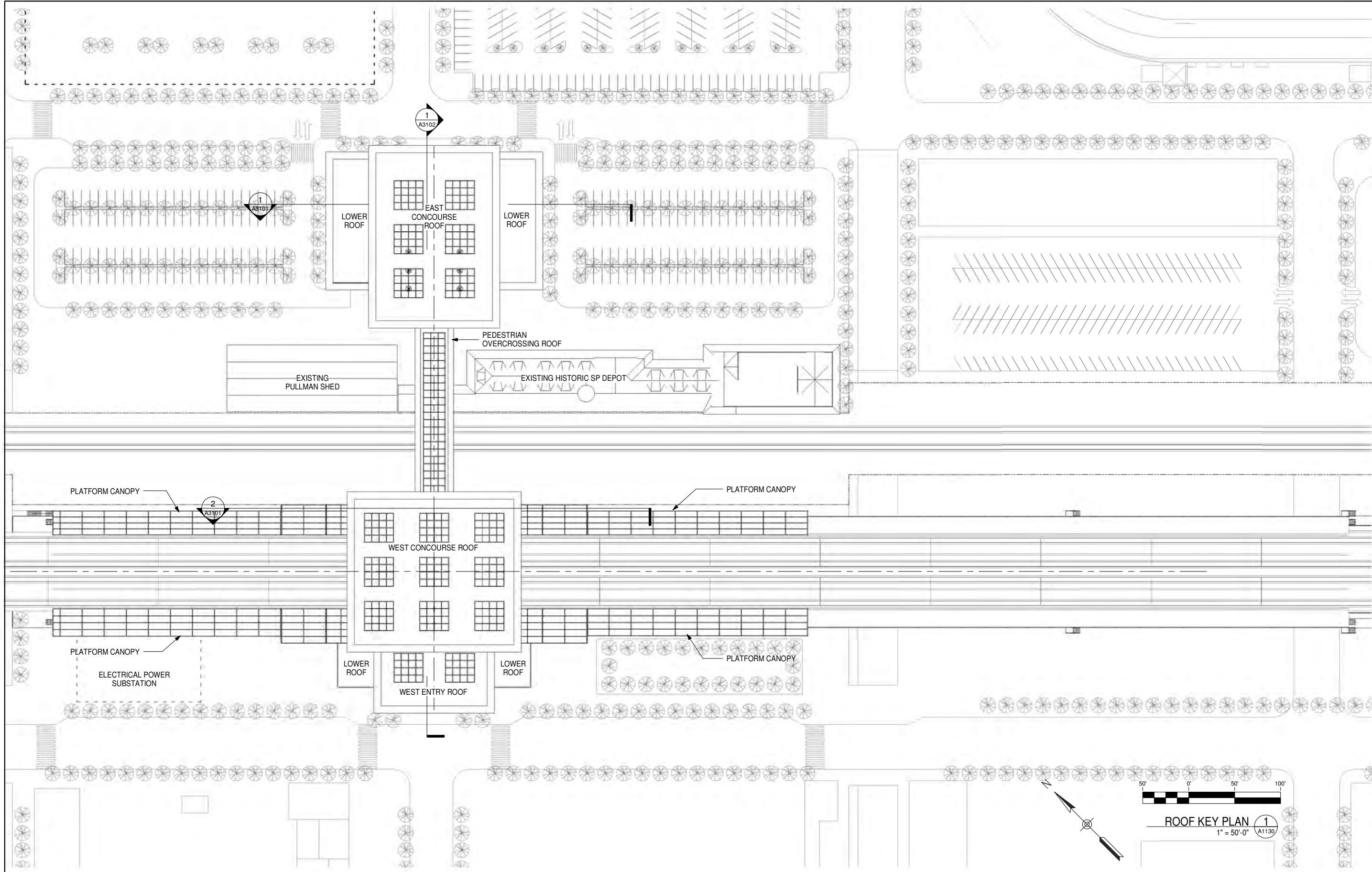
FRESNO SUBSECTION
ALIGNMENT F1

FRESNO STATION - MARIPOSA ALTERNATIVE
WEST CONCOURSE FLOOR PLAN

CONTRACT NO.	HSR 06-003
DRAWING NO.	A1122
SCALE	1" = 20'-0"
SHEET NO.	8 OF 15

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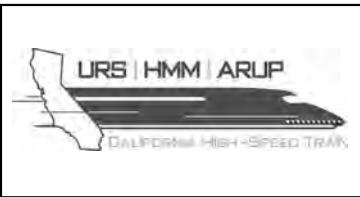


REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. NAOR
DRAWN BY D. BACKMAN
CHECKED BY F. KING
IN CHARGE E. NAOR
DATE 02/15/12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
FRESNO STATION - MARIPOSA ALTERNATIVE
ROOF KEY PLAN

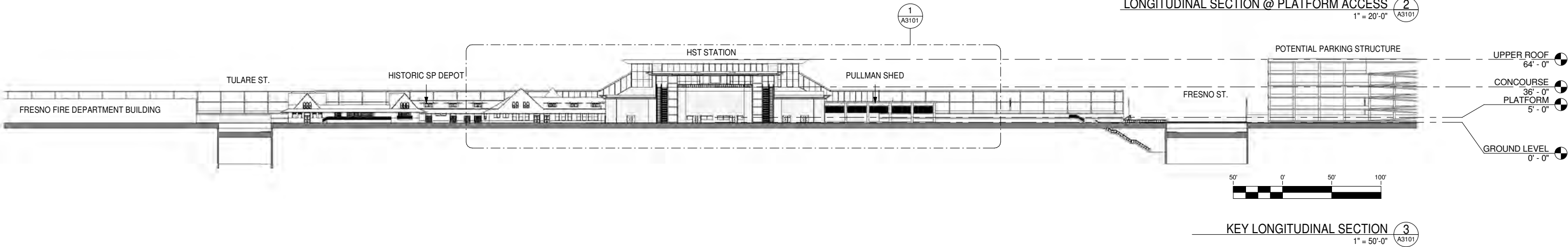
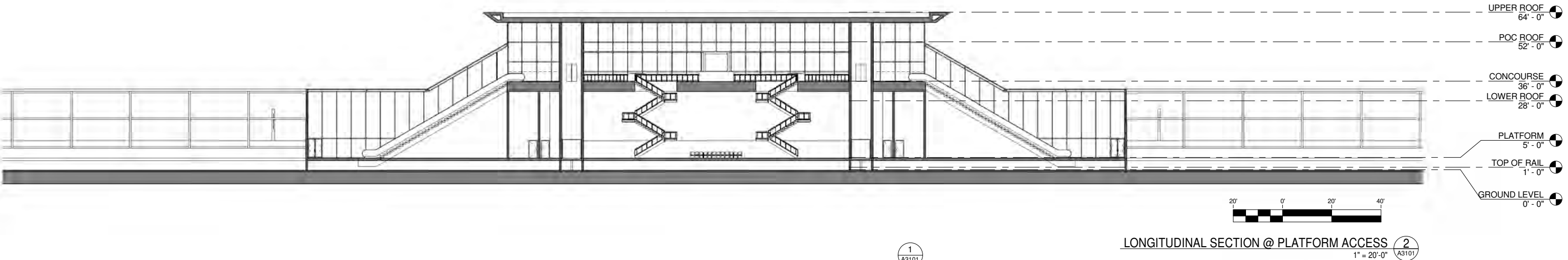
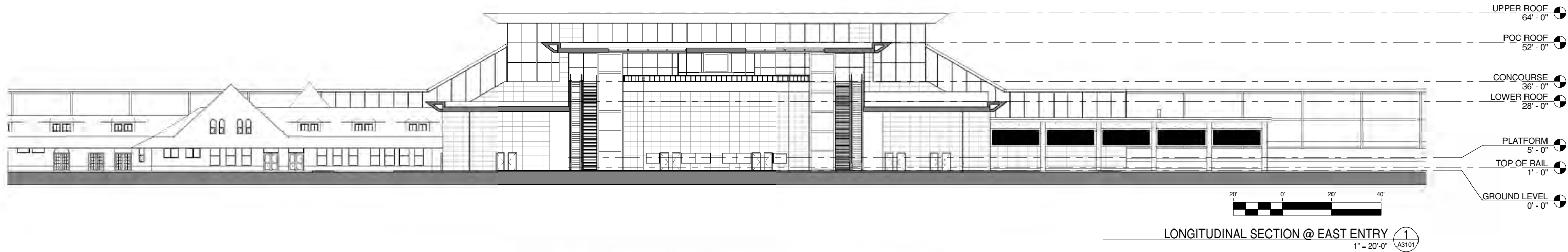
CONTRACT NO.	HSR 06-003
DRAWING NO.	A1130
SCALE	1" = 50'-0"
SHEET NO.	9 OF 15

GENERAL NOTES

KEY NOTES

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GENERAL NOTES

KEY NOTES

REV	DATE	BY	CHK	APP	DESCRIPTION

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DRAWN BY D. BACKMAN
CHECKED BY F. KING
IN CHARGE E. NAOR
DATE 02/15/12

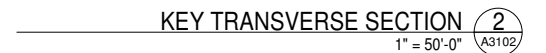
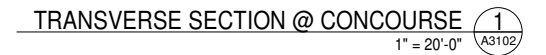
RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
FRESNO STATION - MARIPOSA ALTERNATIVE
BUILDING SECTIONS

CONTRACT NO. HSR 06-003
DRAWING NO. A3101
SCALE As indicated
SHEET NO. 10 OF 15



KEY NOTES

						DESIGNED BY E. NAOB	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD FRESNO SUBSECTION ALIGNMENT F1 FRESNO STATION - MARIPOSA ALTERNATIVE BUILDING SECTIONS	CONTRACT NO. HSR 06-003
						DRAWN BY D. BACKMAN				DRAWING NO. A3102
						CHECKED BY F. KING				SCALE As indicated
						IN CHARGE E. NAOB				SHEET NO. 11 OF 15
						DATE 02/15/12				
REV	DATE	BY	CHK	APP	DESCRIPTION					

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2/13/2012 9:34:38 AM

ROOM SCHEDULE

NO.	ROOM NAME	AREA	REQUIRED AREA	FORMULA	TM 2.2.2	COMMENTS
1	EAST ENTRY	13191 SF	11115 SF	P15x30sf/person	6.2.3.2	
2	FUTURE CONCESSION	2115 SF		TBD	6.2.3.6	
3	FUTURE CONCESSION	2116 SF		TBD	6.2.3.6	
4	JANITOR & STORAGE	396 SF	110 SF	110 SF x 3	6.2.6.2.16	
5	POLICE OFFICE	248 SF	160 SF	160 SF	6.2.6.2.8	
6	SECURITY OFFICE	219 SF	160 SF	160 SF	6.2.6.2.7	
7	PASSENGER SERVICES OFFICE	331 SF	160 SF	160 SF	6.2.6.1.3	
8	STATION AGENT OFFICE	360 SF	270 SF	270 SF	6.2.6.1.5.	
9	TICKET SALES OFFICE	360 SF	143 SF	((P60bx.15)/(1.5 x 60)) x 75) sqft	6.2.6.1.1	
10	TICKET ADMIN OFFICE	331 SF	160 SF	160 SF	6.2.6.2.6	
12	MEN'S RESTROOM	570 SF	371 SF	P15	6.2.3.5	
13	WOMEN'S RESTROOM	598 SF	371 SF	P15	6.2.3.5	
14	STAFF RESTROOMS & LOCKERS	532 SF		Local Codes	6.2.6.12/13	
15	STAFF RESTROOMS & LOCKERS	532 SF		Local Codes	6.2.6.12/13	
16	MECHANICAL	352 SF		TBD	6.4.6	
17	STATION ADMIN OFFICE	500 SF		((65sqft x staff with own workspace) + (43sqft x staff with shared workspace))x1.25	6.2.6.2.1	
18	TRANSIT AGENCY OFFICE	347 SF		Based on Demand	6.2.6.11	
19	FACILITY MAINTENANCE OFFICE	380 SF	325 SF	325 SF	6.2.6.2.9	
20	ELECTRICAL	352 SF		TBD	6.4.2	
21	TRAINING & MEETING ROOM	617 SF	500 SF	(20sqft x max staff per shift x 1.25)	6.2.6.2.2	
22	STAFF BREAK ROOM	479 SF	125 SF	(20sqft x .25 x max staff per shift x 1.25)	6.2.6.2.14	
23	LANDSCAPE	425 SF		TBD	6.2.6.2.18	
24	TRASH	436 SF	54 SF	54 SF	6.2.6.2.15	
25	OPERATIONS MAINTENANCE OFFICE	1178 SF	1080 SF	1080 SF	6.2.6.2.10	
26	STATION CONTROL & COMMUNICATION	1178 SF	1080 SF	1080 SF	6.2.6.2.3	
27	STATION COMPUTER ROOM	877 SF	525 SF	525 SF	6.2.6.2.4	
28	JANITOR	130 SF	110 SF	110 SF	6.2.6.2.16	
29	FUTURE ELEVATOR MACHINE ROOM	79 SF		TBD	6.2.5.2.4	
30	ELEVATOR MACHINE ROOM	79 SF		TBD	6.2.5.2.4	
31	STORAGE	130 SF	130 SF	130 SF	6.2.6.2.17	
32	JANITOR	166 SF	110 SF	110 SF	6.2.6.2.16	
33	FUTURE ELEV. MACH. ROOM	112 SF		TBD	6.2.5.2.4	
34	ELEV. MACH. ROOM	112 SF		TBD	6.2.5.2.4	
35	STORAGE	166 SF	130 SF	130 SF	6.2.6.2.17	
36	TRASH	343 SF	54 SF	54 SF	6.2.6.2.15	
37	LANDSCAPE	343 SF		TBD	6.2.6.2.18	
38	SIGNALING	372 SF		TBD	6.4.7	
39	TELECOM	372 SF		TBD	6.4.7	
40	STORAGE	258 SF	130 SF	130 SF	6.2.6.2.17	
41	JANITOR	258 SF	110 SF	110 SF	6.2.6.2.16	
42	WEST ENTRY	5295 SF	11115 SF	P15x30sf/person	6.2.3.2	
43	FIRE PROTECTION	524 SF		TBD	6.4.4	
44	ELECTRICAL	507 SF		TBD	6.4.2	
45	PLUMBING	495 SF		TBD	6.4.3	
46	MECHANICAL	479 SF		TBD	6.4.6	
47	EAST CONCOURSE	10466 SF	11117 SF	P15x30sqft	6.2.4.1	
48	PEDESTRIAN OVERCROSSING	6351 SF		TBD	6.2.4.1	
49	WEST CONCOURSE	11266 SF	11117 SF	P15x30sqft	6.2.4.1	
50	WAITING AREA	7342 SF	5187 SF	P15x14sqft or Pbmax x 10sqft or Pbmax x 10sqft	6.2.4.2	
51	WAITING AREA	7342 SF	5187 SF	P15x14sqft or Pbmax x 10sqft or Pbmax x 10sqft	6.2.4.2	

REV	DATE	BY	CHK	APP	DESCRIPTION	

DESIGNED BY E. NAOR
DRAWN BY D. BACKMAN
CHECKED BY F. KING
IN CHARGE E. NAOR
DATE 02/15/12

RECORD SET 15%
DESIGN SUBMISSION

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CONSTRUCTION

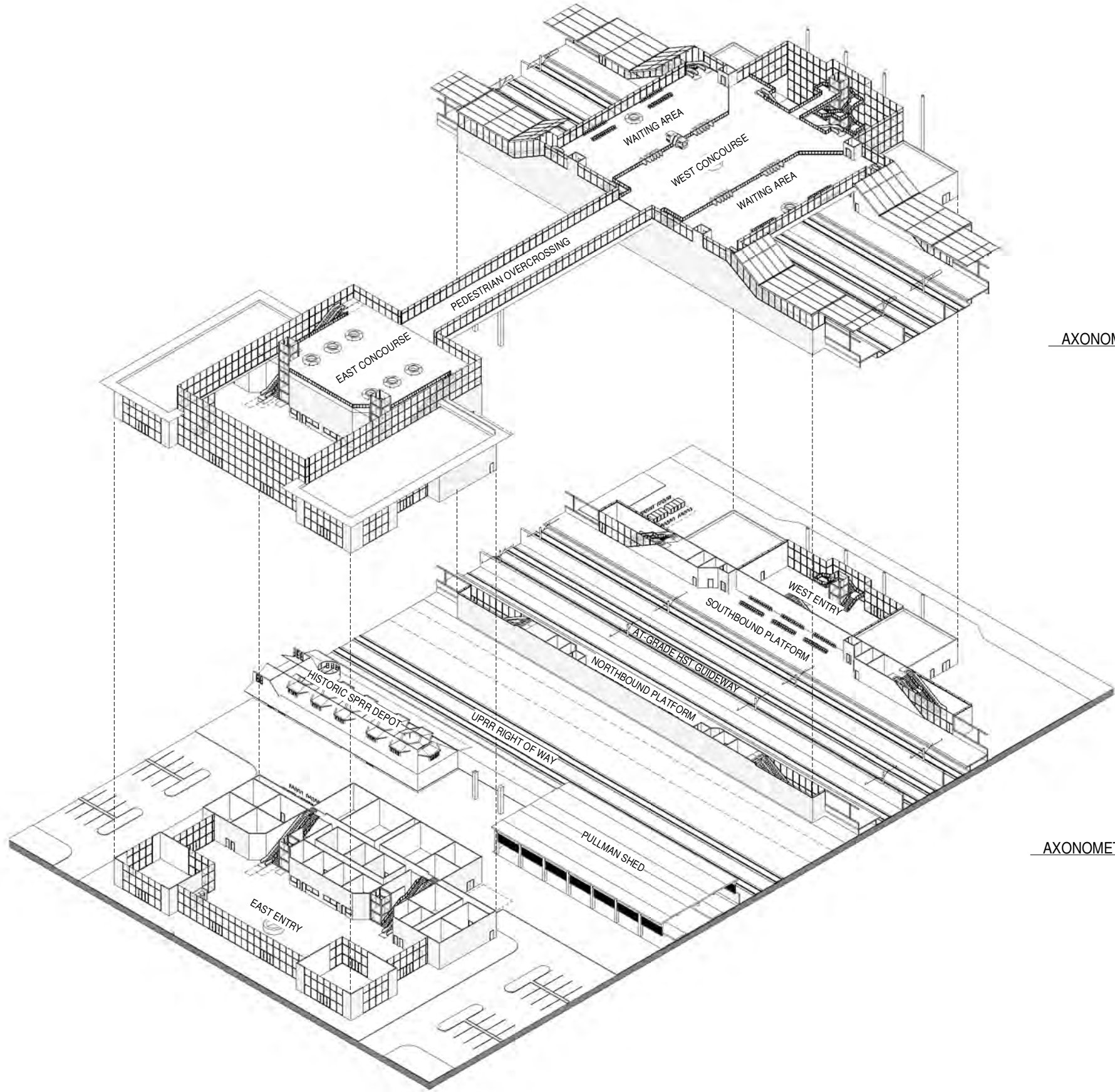


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
FRESNO STATION - MARIPOSA ALTERNATIVE
ROOM SCHEDULE

CONTRACT NO. HSR 06-003
DRAWING NO. A6101
SCALE
SHEET NO. 12 OF 15

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AXONOMETRIC VIEW - CONCOURSE 2
A9101

AXONOMETRIC VIEW - GROUND LEVEL 1
A9101

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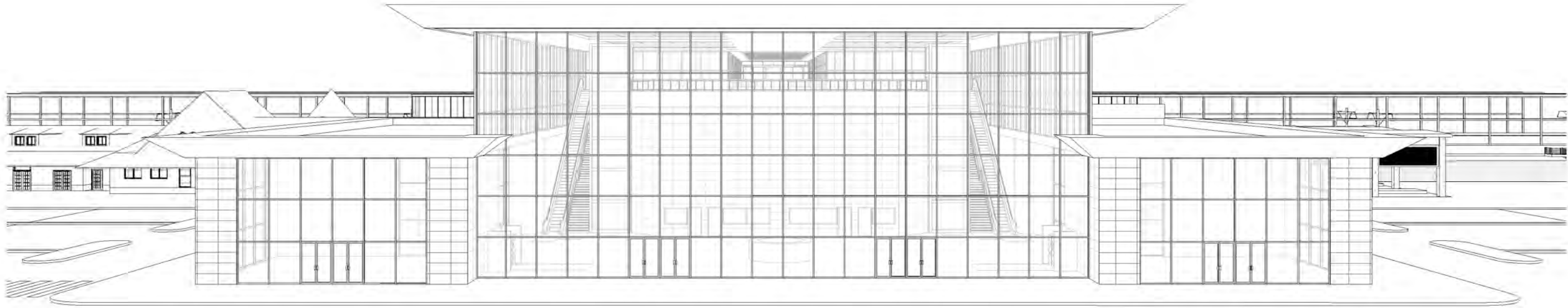


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
FRESNO STATION - MARIPOSA ALTERNATIVE
AXONOMETRIC VIEWS

CONTRACT NO. HSR 06-003
DRAWING NO. A9101
SCALE
SHEET NO. 13 OF 15

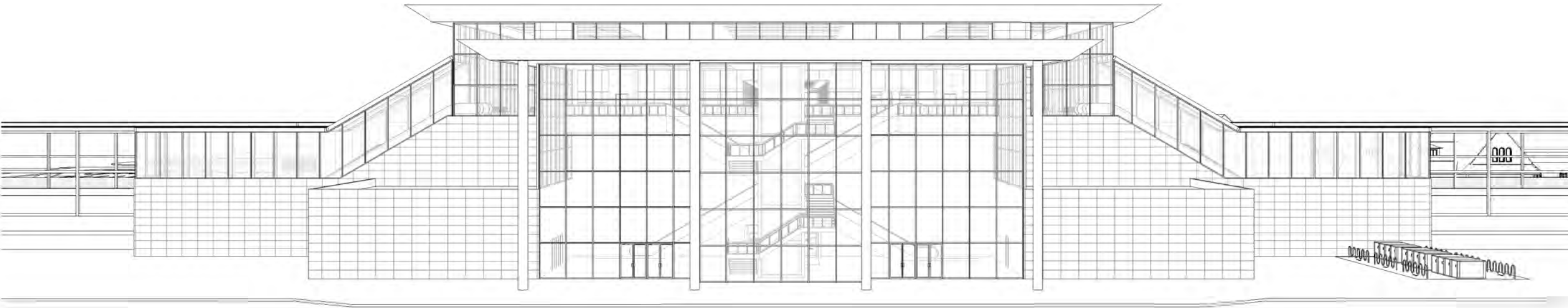
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3D VIEW OF EAST ELEVATION

1
A9102



3D VIEW OF WEST ELEVATION

2
A9102

GENERAL NOTES

KEY NOTES

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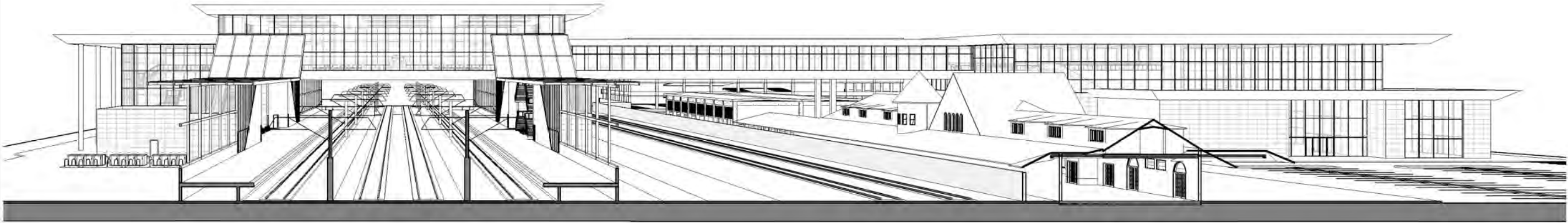


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
FRESNO STATION - MARIPOSA ALTERNATIVE
3D ELEVATION VIEWS

CONTRACT NO.	HSR 06-003
DRAWING NO.	A9102
SCALE	
SHEET NO.	14 OF 15

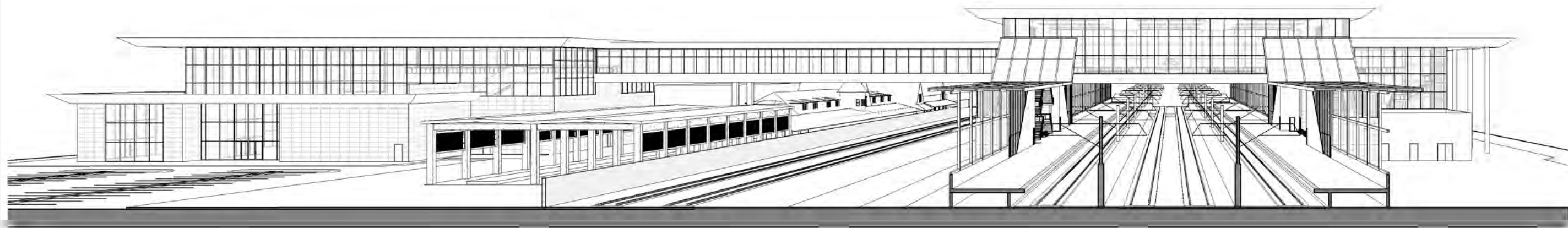
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3D VIEW OF SOUTH ELEVATION

1
A9103



3D VIEW OF NORTH ELEVATION

2
A9103

GENERAL NOTES

KEY NOTES

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
FRESNO STATION - MARIPOSA ALTERNATIVE
3D ELEVATION VIEWS

CONTRACT NO.	HSR 06-003
DRAWING NO.	A9103
SCALE	
SHEET NO.	15 OF 15